

ENTERTAINMENT SOUND PANELS

Abstract of Disclosure

An entertainment sound panel that serves foreground music and paging applications. The entertainment sound panel of the present invention is constructed of honeycomb materials and adhesives. The driver of the entertainment sound panel is mounted and supported on a bridge structure that spans the entertainment sound panel on its back side. The driver interacts with the panel through the voice coil assembly. The driver is separated from the entertainment sound panel by a contact pad to deal with the shear problems between the sound panel and driver. Improvement in low frequency (bass) response is provided by a butt joint that lays next to an adjacent isolation pad, and can float freely. In another embodiment, the present invention provides a lower cost flat panel sound radiator for low end business applications where the performance characteristics of the radiator are less important than the cost. The low end flat panel radiator is constructed from a polypropylene or similar material. As with the entertainment sound panel, the driver of the polypropylene sound panel is mounted and supported on a bridge structure that spans the sound panel on its back side. Foam stabilizers positioned on either side of the driver are used to set the height between the polypropylene sound panel and the bridge structure.

Figures